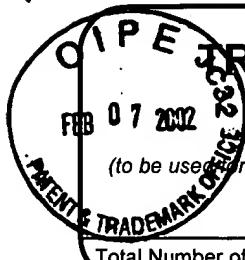


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Approved for use through 10/31/2002. OMB 0651-0031

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**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

(filing)	Application Number	09/868,682
	Filing Date	February 8, 1999
	First Name Inventor	Nichols
	Group Art Unit	
	Examiner Name	
1	Attorney Docket Number	05222.00159
		<i>RECEIVED</i> <i>APR 24 2002</i>
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<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
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<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation, Change of Correspondence Address	<input type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	Form 1449 Return Receipt Postcard
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application	Remarks	Please charge any additional fees or credit overpayment to Deposit Account No. 01-0850. A duplicate copy of this sheet is enclosed.
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Charles L. Miller Banner & Witcoff, Ltd.	RECEIV
Signature		JUL 12 2002
Date	February 4, 2002	GROUP

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By: Tony Davis
(person actually depositing)

In the Application of: Nichols

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Serial Number: 09/868,682

OCT 09 2002

Technology Center 2100

Filing Date: February 8, 1999

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Title: A System, Method and Article of Manufacture for a Goal Based System Utilizing an

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(Attorney Docket No. 05222.00159)

In the Application of:

Nichols, et al.

Serial No.: 09/868,682

Filed: February 8, 1999

For: System, Method and Article of
Manufacture for

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Group Art Unit: n/a TECHNOLOGY CENTER R3700

Examiner: n/a

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Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

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Pursuant to 37 C.F.R. Section 1.97-1.98, applicants wish to make the following references of record in the above-identified application. These references may be material to the patentability of the presently pending claims. A completed Form -1449 is enclosed. Due to the large number of references and large number of related applications, the Applicant filed a single copy of all of the references in U.S. patent Application Serial No. 09/219,478 in an Information Disclosure Statement filed February 7, 2002. U.S. Patent Application Serial No. 09/219,478 is assigned to Examiner Ingberg in Group Art Unit 2122.

A Protest under 37 C.F.R. 1.291 was filed in U.S. Patent Application Serial No. 09/219,478. The Applicant is attaching a copy of the Protest, as well as a Response filed in the same application by the Applicant. The prosecution of U.S. Patent Application Serial No. 09/219,478 remains open. The Protest and Response are attached as a courtesy to the Examiner, but are not being listed on the attached Form-1449, because they are not prior art references.

This Information Disclosure Statement is being filed within three months of the application filing date, before the mailing of a first Office Action on the merits, accordingly, no fee or separate requirements are required. However, if a fee is due in

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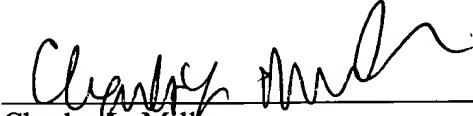
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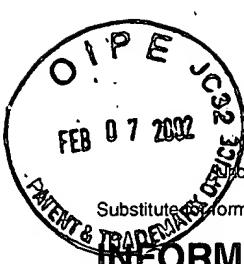
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connection with this filing, please charge any fees or credit overpayment associated with this paper to Deposit Account No. 01-0850

Respectfully submitted,
BANNER & WITCOFF, LTD.

Date: February 7, 2002


Charles L. Miller
Reg. No. 43,805



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Substitute Form 1449 A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 14

Application Number : 09/868,682

Filing Date: 02/08/1999

First Named Inventor: Nichols

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 05222.00159

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U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. ¹	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)	MM-DD-YYYY		
		US-4,622,013	11/11/1986	Cherchio	RECEIVED
		US- 4,874,784	10/17/1989	Clancey	SEP 17 2002
		US- 4,981,766	01/02/1990	Derr, et al.	TECHNOLOGY CENTER R3700
		US- 4,931,950	06/05/1990	Isle, et al.	
		US- 4,964,077	10/16/1990	Eisen, et al.	
		US- 4,977,529	12/11/1990	Gregg, et al.	
		US- 5,002,491	03/26/1991	Abrahamson, et al.	
		US- 5,170,464	12/08/1992	Hayes, et al.	RECEIVED
		US- 5,189,402	02/23/1993	Naimark, et al.	
		US- 5,208,745	05/04/1993	Quentin, et al.	
		US- 5,208,898	05/04/1993	Funabashi, et al.	
		US- 5,239,617	08/24/1993	Gardner, et al.	APR 24 2002
		US- 5,259,766	11/09/1993	Sack et al.	
		US- 5,267,865	12/07/1993	Lee, et al.	Technology Center 2100
		US- 5,310,349	05/10/1994	Daniels, et al.	
		US- 5,311,422	05/10/1994	Loftin, et al.	
		US- 5,317,688	05/31/1994	Watson, et al.	
		US- 5,326,270	07/05/1994	Ostby, et al.	RECEIVED
		US- 5,359,701	10/25/1994	Chiang, et al.	
		US- 5,372,507	12/13/1994	Goleh	

FOREIGN PATENT DOCUMENTS					
Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)			
		EP 0 689 132 A2	12/27/95	Laffra	RECEIVED
		EP 0 710 942 A2	05/08/96	Siefert	
		EP 0 710 942 A2	05/08/96	Siefert	
		EP 0 798 655 A2	10/01/97	Jervis, et al.	
		WO 00/04478	01/27/00	Jonsson	RECEIVED
		WO 97/44766	11/27/97	Cook	
		WO 98/03953	01/29/98	Simmons	JUL 12 2002
		WO 98/25251	06/11/98	Ho	
		WO 98/32109	07/23/98	De Lange	GROUP 3000

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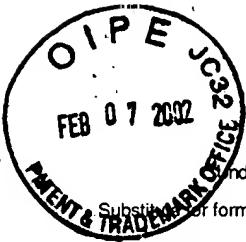
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³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 3 of 14

Application Number : 09/368,682

Filing Date: 02/08/1999

First Named Inventor: Nichols

Group Art Unit: 1642

Examiner Name: Liu

Attorney Docket Number: 05222.00159

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		"Evaluating the effectiveness of feedback in SQL-tutor", IEEE, proc. Int. workshop IWALT, pp 143-144
		"Automated Exercise Progression in Simulation-Based Training," IEEE Trans. On Systems, Man, and Cybernetics, Vol. 24(6), pp. 863-74, June 1994
		"ACM Transactions on Information Systems," 1988 at www.acm.org/pubs/toc/Abstracts/tois/59298.41x
		The Virtual Classroom: Great Expectations. Delivering Graduate Education by Computer. <i>A Business Story</i> , 1996.
		"A Special Section -- Goal Based Scenarios: A New Approach to Professional Education: Reengineering Education at Andersen Consulting," Educational Technology, Nov.-Dec. 1994
		"Goal-Based Scenarios and the Problem of Situated Learning: A Commentary on Andersen Consulting's Design of Goal-Based Scenarios," Educational Technology, Nov.-Dec. 1994
		"DDD--A Free Graphical Front-End for UNIX Debuggers," Jan. 1996, ACM Sigplan Notices, Vol. 31, No. 1, pp. 22-27
		"Automated Training of Legal Reasoning" at http://www.bileta.ac.uk/94papers/muntjew.html
		"The Virtual Learning Environment System," 28th Annual Frontiers in Education Conference, Conference Proceedings, Vol. 2, Nov. 4-7, 1998
		"Developing a Design System into an Intelligent Tutoring System," Int'l J. Engr. Educ., Vol. 13(5), pp.341-46, Dec. 1997
		"CAPTOR a model for delivering web based intelligent tutoring system technology", IEEE Proc. DASC vol. 2, pp 5.C.4.1-5

Examiner Signature	Date Considered
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¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

² Unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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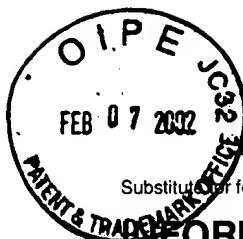
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Sheet 4 of 14

Application Number : 09/868,682

Filing Date : 02/08/1999

First Named Inventor: Nichole

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 9522.2013

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		"Bridging the Virtual and the Physical: The InterSim as a Collaborative Support Interface," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 556-58, Dec. 1997
		"Task-Oriented Learning on the Web"; Innovations in Education and Training International, Vol. 36, No. 1, Feb. 1999
		"Applications of BrainMaker Neural Network to stocks, business, medical, manufacturing" at www.calsci.com/Applications.html
		"KBLPS Overview" at www.cgi.com/CGIWEB/KBLPS/overindex4.html
		"Smartlaw: adapting classic expert system techniques for the legal research domain", ACM pp 133-141
		"Interactive Multimedia Instructs the Individual," Oct. 1994, Occupational Health & Safety, Vol. 63, No. 10, pp 144-145
		"Practical methods for automatically generating typed links", ACM Hypertext, pp 31-41
		"Popular Theory Supporting the Use of Computer Simulation for Experiential Learning," http://www.centurionsys.com/rtcl57.html , Aug. 1997
		"Technical Report: Computer Aided Education and Training Initiative" at http://advlearn.lrdc.pitt.edu/advlearn/papers/FINALREP.html
		"FRA: Teaching Financial Accounting with a Goal-Based Scenario," Intelligent Systems in Accounting, Finance and Management, Vol. 4, 1995
		"Teaching Real-World Analysis Skills for Goal-Based Scenario," pp. 68-74

Examiner Signature		Date Considered
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Sheet 6 of 14

Application Number : 09/868,682

Filing Date: 02/08/1999

First Named Inventor: Nichols

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 05222.00159

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		"Artificial Intelligence and Mathematics Education" at http://www.rand.org/hot/mcarthur/Papers/aied.html	
		"The Roles of Artificial Intelligence in Education: Current Progress and Future Prospects" at http://www.nib.unicamp.br/recursos...education/intelligent-tutoring.html	
		"WITS: A Reusable Architecture for a VR-Based ITS" at http://advlearn.lrdc.pitt.edu/its-arch/papers/tam.html	
		"Brainmaker" at www.npiec.on.ca/~echoscan/28-04.htm	
		"News for ESAP" at www.hops.wharton.upenn.edu/~esap/news.html	
		"Learning with Computers," May 1994, Accountancy Vol. 113, No. 1209, pp. 60-64	
NOV 29 2002 TECHNOLOGY CENTER R3700		"User-Sensitive Multimedia Presentation System," March 1, 1996, Vol. 39, No. 3, pp. 93-94	
		"Microworlds and Simuworlds: Practice Fields for the Learning Organization," Spring 1996, Organizational Dynamics Vol. 24, No. 4, pp. 36-49	
		"What are Intelligent Coaching Systems and Why are they (in)evitable?" IEEE Colloquium on Artificial Intelligence in Educational Software, pp. 2/1-2/5, June 1998	
		"Development of an Integrated Simulator and Real Time Plant Information System," Advances in Operational Safety of Nuclear Power Plants, Proceedings of an International Symposium 1996.	

Examiner Signature		Date Considered
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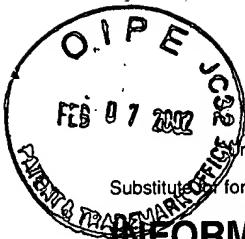
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 8 of 14

Application Number : 09/868,682

Filing Date: 02/08/1999

First Named Inventor: Nichols

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 10522200159

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS		
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		"A Goal-Centered Architecture for Intelligent Tutoring Systems," Proc. Of 7th World Conf. On Artificial Intelligence in Education, pp. 307-314, Aug. 1995
		"Smart Avatars in JackMOO," Proceedings of the 1999 IEEE Conference on Virtual Reality, pp. 156-63
		"Embedding an Intelligent Tutoring System in a Business Gaming-Simulation Environment," Proc. Of the 1999 Winter Simulation Conference, pp. 1399-1406, Dec. 1999
		"Evaluating Intelligent Tutoring with Gaming Simulations," Proc. Of the 1995 Winter Simulation Conf., pp. 176-83, Dec. 1995
		"Persistent Issues in the Application of Virtual Environment Systems to Training," August 1996, Proceedings. Third Annual Symposium on Human Interaction with Complex Systems, IEEE, pp. 124-32.
		"The Lisp Tutor," Byte, pp. 159-75, Apr. 1985
		"Pedagogical, natural language and knowledge engineering techniques in SOPHIE I, II, and III," in Intelligent Tutoring Systems, D. Sleeman & J.S. Brown eds., pp. 227-82, Dec. 1982
RECEIVED NOV 29 2002 TECHNOLOGY CENTER R3700		Interactive Multimedia Distance Learning (IMDL): The Prototype of the Virtual Classroom, 1994.
		"Understanding Organizational Dynamics of IT-Enabled Change: A Multipedia Simulation Approach," Winter 1997/1998, Journal of Management Information Systems: JMIS, Vol. 14, No. 3, pp. 109-140.
		"Intelligent Computer-Aided Instruction: A Survey Organized Around System Components," Jan. 1989, IEEE Inc., New York, Vol. 49, No. 1, pp. 40-57.

Examiner Signature		Date Considered
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¹ Unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 10 of 14

Application Number : 09/868,682

Filing Date: 02/08/1999

First Named Inventor: Nichols

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 0522700159

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		"Conducting and Supporting a Goal-Based Scenario Learning Environment," Educational Technology, Nov.-Dec. 1994	
		"Interface design issue for advising giving expert systems", Comm. Of the ACM, vol 30, no. 1, pp14-31	
		"An Object-Oriented Architecture for Evolutional Development of Interactive Learning Environment with Coached Problem-Solving," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 592-94, Dec. 1997	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 11 of 14

Application Number : 09/868,682

Filing Date: 02/08/1999

First Named Inventor: Nichols

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 05222.00159

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		"No More Boring CPE," July 1997, Accounting Technology, pp. 27-35
		Computer Dictionary, 1997, pp. 264, 276, 383, 446, 462, 507.
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		"Using Planning Techniques to Provide Feedback in Interactive Learning Environments," Proc. Sixth Int'l Conf. On Tools with Artificial Intelligence," pp. 700-03, Nov. 1994
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		"Simulation Technology and Parallelism in Learning Environments" at http://www.ti.utwente.nl/prj/min/Book/chapter1.htm

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 12 of 14

Application Number : 09/868,682

Filing Date : 02/08/1999

First Named Inventor: Nichols

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 05222.00159

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		"Engines for Education" URL: http://www.ils.nwu.edu/~e_for_e/nodes/I-M-INTRO-ZOOMER-pg.html ; viewed Feb. 15, 1999.	
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		"Teaching with the internet" 1998, JAI Press Inc., USA. Vol no. 3, pp 217-222	
		"Development of a Simulation-Based Intelligent Tutoring System for Assisting PID Control Learning," Jan. 1994, IEICE Transactions on Information and Systems, E77-D, No. 1, Tokyo Japan, pp. 108-17.	
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RECEIVED		Multimedia Training "Get Lemonade, Not a Lemon!" June 1997, Journal for Quality and Participation vol. 20, No. 3, pp. 22-26	TECHNOLOGY CENTER R3700
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TECHNOLOGY CENTER R3700		SMART Evaluation: Cognitive Diagnosis, Mastery Learning & Remediation," Proc. Of 7th World Conf. On Artificial Intelligence in Education, pp. 123-30, Aug. 1995	
		"Decision Pro3.0" at www.vanguardsw.com/	

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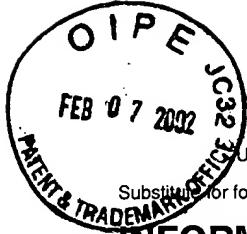
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Sheet 13 of 14

Application Number : 09/868,682

Filing Date: 02/08/1999

First Named Inventor: Nichols

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 05222.00159

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		"A Fuzzy Logic-Based Intelligent Tutoring System," Information Processing 92, Vol. II, pp. 66-72, Dec. 1992.	
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		"Goal-Based Scenarios", Technical Report # 36, Northwestern University, The Institute for the Learning Sciences, December 1992, pp. 1-30	TECHNOLOGY CENTER R3700

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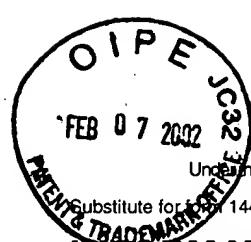
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STATEMENT BY APPLICANT**

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Sheet 14 of 14

Application Number : 09/868,682

Filing Date : 02/08/1999

First Named Inventor: Nichols

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 05222.00159

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		"Eight Goal-Based Scenario Tools", Technical Report # 67, Northwestern University, The Institute for the Learning Sciences, January 1996, pp. 1-37	
		"A Role for AI in Education: Using Technology to Reshape Education", Northwestern University, The Institute for the Learning Sciences, Journal of Artificial Intelligence in Education, Winter 1990, January 1990, pp. 1-24 and 2 pgs. of references	
		"The Design of Goal-Based Scenarios", Technical Report # 39, Northwestern University, The Institute for the Learning Sciences, March 1993, pp. 1-58	

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